

Observations of Occultations of Stars by the Moon and of Phenomena of Jupiter's Satellites made at the Royal Observatory, Greenwich, in the year 1897.

(Communicated by the Astronomer Royal.)

Day	Phenomenon.	Telescope.	Power.	Moon's Limb.	Mean Solar Time of Observation.		Observer.
					h	m ^s	
Apr. 15	Disapp. W.B. XII. 334	Astrographic Equat.	225	Dark	11 32	38.24	J.
May 4	Reapp. Piazzi IV. 287	Altazimuth	100	Bright	8 38	0.98	H.
4	Disapp. W.B. (2) IV. 1358-9	"	100	Dark	8 39	49.58	"
6	" W.B. (2) VI. 1452	"	100	"	9 36	31.67	A. C.
6	" W.B. (2) VI. 1447	Sheepshanks Equat.	100	"	9 38	30.78	J.
June 18	" Piazzi XXI. 291	"	100	Bright	13 42	37.24	S.
18	Reapp. "	"	100	Dark	14 10	47.50	"
July 11 (a)	" Lalande 31226	Astrographic Equat.	225	Bright	9 6	41.95	W.
13	Disapp. χ^1 Sagittarii	Sheepshanks Equat.	55	Dark	9 21	4.17	B.
13	" "	Altazimuth	100	"	9 21	4.27	S.
13	" "	Astrographic Equat.	225	"	9 21	3.87	W. S.
13 (b)	Reapp. "	Sheepshanks Equat.	225	Bright	10 22	(10.20)	B.
13	" "	Altazimuth	100	"	10 22	7.82	S.
23	Disapp. 17 Tauri	Astrographic Equat.	225	"	12 17	2.78	C. D.
23	" "	Sheepshanks Equat.	100	"	12 17	(0.09)	W. S.
23	" 16 Tauri	Astrographic Equat.	120	"	12 40	35.43	C. D.
23	Reapp. "	"	120	Dark	12 53	29.52	"

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Day.	Phenomenon.	Telescope.	Power.	Moon's Limb.	Mean Solar Time of Observation. h m s	Observer.
July 23	Reapp. 16 Tauri	Sheepshanks Equat.	100	Dark	12 53 29.89	W. S.
23	Disapp. 23 Tauri	Astrographic Equat.	120	Bright	12 55 15.53	C. D.
23	"	Sheepshanks Equat.	100	"	12 55 14.80	W. S.
23 (a)	"	Astrographic Equat.	225	"	12 58 53.44	C. D.
23 (a)	"	"	225	"	13 1 9.07	"
23	Reapp. 17 Tauri	"	120	Dark	13 10 4.51	"
23	"	Corbett Tel.	100	"	13 10 3.72	H. F.
23	"	28-inch Equat.	670	"	13 10 3.52	S.
23	"	Astrographic Equat.	120	"	13 10 57.47	C. D.
23	"	"	120	"	13 19 24.29	"
23	"	Sheepshanks Equat.	100	"	13 19 (25.83)	W. S.
23	"	Astrographic Equat.	120	"	13 22 13.63	C. D.
23	"	"	120	Bright	13 22 45.74	"
23	"	Corbett Tel.	100	"	13 22 46.41	H. F.
23	"	28-inch Equat.	670	"	13 22 46.41	S.
23	"	Sheepshanks Equat.	100	"	13 22 46.28	W. S.
23	"	Corbett Tel.	100	"	13 26 46.13	H. F.
23	"	28-inch Equat.	670	"	13 26 46.73	S.
23	Reapp. B.D. + 23° No. 513	Astrographic Equat.	225	Dark	13 28 36.58	C. D.
23	"	"	120	"	13 32 30.95	"

Day.	Phenomenon.	Telescope.	Power.	Moon's Limb.	Mean Solar Time of Observation. h m s	Observer.
July 23	Reapp. 23 Tauri	Corbett Tel.	100	Dark	13 32 29.37	H. F.
23	"	28-inch Equat.	670	"	13 32 29.17	S.
23	"	Corbett Tel.	100	"	13 47 51.60	H. F.
23	"	28-inch Equat.	670	"	13 47 51.20	S.
23	"	Astrographic Equat.	120	"	13 48 51.36	C. D.
23	"	Corbett Tel.	100	"	13 48 51.32	H. F.
23	"	28-inch Equat.	670	"	13 48 50.82	S.
23	"	Sheepshanks Equat.	100	"	13 48 (52.47)	W. S.
23	"	Astrographic Equat.	120	"	13 52 34.76	C. D.
23	"	Corbett Tel.	100	"	13 52 35.21	H. F.
23	"	Sheepshanks Equat.	100	"	13 52 34.36	W. S.
23	"	Astrographic Equat.	120	"	13 54 15.68	C. D.
23	"	Corbett Tel.	100	"	13 54 15.62	H. F.
23	"	28-inch Equat.	670	"	13 54 14.62	S.
23	"	Astrographic Equat.	120	"	13 55 40.15	C. D.
23	"	"	120	"	14 12 17.44	"
23	"	Corbett Tel.	100	"	14 12 16.61	H. F.
23	"	Sheepshanks Equat.	100	"	14 12 17.11	W. S.
23	"	Astrographic Equat.	120	"	14 13 4.31	C. D.
23	"	Corbett Tel.	100	"	14 13 3.57	H. F.

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		Observer.	
		Mean Solar Time of Observation.	
		h m s	
		14 13 4.87	S.
		14 13 3.98	W. S.
		14 14 14.03	C. D.
		14 14 (16.59)	H. F.
		14 15 3.98	C. D.
		14 15 3.04	H. F.
		14 15 2.44	S.
		14 15 3.65	W. S.
		14 17 22.40	C. D.
		14 17 (19.45)	H. F.
		14 17 21.55	S.
		14 24 50.29	C. D.
		14 24 49.81	H. F.
		14 24 49.81	S.
		14 24 49.75	W. S.
		14 32 59.85	C. D.
		14 33 17.59	H. F.
		14 33 18.29	S.
		14 46 44.31	C. D.
		14 46 45.85	H. F.
		14 46 45.35	S.
		14 47 31.78	C. D.
		14 47 31.81	H. F.
		Power.	
		Moon's Limb.	
		Telescope.	
		Phenomenon.	
July	23	Reapp. 24 Tauri	28-inch Equat.
	23	"	Sheepshanks Equat.
	23	" B.D. + 23° No. 534	Astrographic Equat.
	23 (c)	"	Corbett Tel.
	23	" η Tauri	Astrographic Equat.
	23	"	Corbett Tel.
	23	"	28-inch Equat.
	23	"	Sheepshanks Equat.
	23	"	Astrographic Equat.
	23	Disapp. 28 Tauri	Corbett Tel.
	23 (a)	"	28-inch Equat.
	23	"	Astrographic Equat.
	23	Reapp. Piazzi III. 151	Corbett Tel.
	23	"	28-inch Equat.
	23	"	Sheepshanks Equat.
	23	"	Astrographic Equat.
	23	" B.D. + 23° No. 548	Corbett Tel.
	23 (a)	Disapp. Piazzi III. 164	28-inch Equat.
	23	"	Astrographic Equat.
	23	Reapp. B.D. + 23° No. 549	Corbett Tel.
	23	"	28-inch Equat.
	23	"	Astrographic Equat.
	23	"	Corbett Tel.
	23	" B.D. + 23 No. 554	28-inch Equat.
	23	"	Astrographic Equat.
	23	"	Corbett Tel.

Greenwich Observations of					LVIII. 3,	
Day.	Phenomenon.	Telescope.	Power.	Moon's Limb.	100	
					Mean Solar Time of Observation.	Observer.
					h m s	
July 23	Reapp. B.D. + 23 No. 554	28-inch Equat.	670	Dark	14 47 31.71	S.
23	" 28 Tauri	Astrographic Equat.	120	"	14 52 45 13	C. D.
23	" "	Corbett Tel.	100	"	14 52 44.84	H. F.
23	" "	28-inch Equat.	670	"	14 52 44.84	S.
23	" Bradley 523	Corbett Tel.	100	"	14 55 35.36	H. F.
23	" "	28-inch Equat.	670	"	14 55 33.86	S.
23	" B.D. + 23° No. 562	Astrographic Equat.	120	"	15 14 26.19	C. D.
23	" "	Corbett Tel.	100	"	15 14 25.52	H. F.
23	" "	28-inch Equat.	670	"	15 14 24.32	S.
23	" "	Sheepshanks Equat.	100	"	15 14 24.90	W. S.
23	" B.D. + 23° No. 560	Astrographic Equat.	120	"	15 19 52.20	C. D.
23	" "	Corbett Tel.	100	"	15 19 51.20	H. F.
23	" "	28-inch Equat.	670	"	15 19 50.80	S.
23	" W.B. (2) III. 903	Astrographic Equat.	120	"	15 21 53.57	C. D.
23	" "	Corbett Tel.	100	"	15 21 52.47	H. F.
23	" "	28-inch Equat.	670	"	15 21 52.17	S.
23	" "	Sheepshanks Equat.	100	"	15 21 53.46	W. S.
23 (d)	" Piazza III. 164	Corbett Tel.	100	"	15 36 36.80	H. F.
23	" "	28-inch Equat.	670	"	15 36 36.00	S.
Aug. 4	Disapp. 89 Virginis	Altazimuth	100	"	8 17 0.81	H.
Oct. 3	" χ ² Sagittarii	Sheepshanks Equat.	125	"	6 41 59.42	W.
3	" χ ¹ Sagittarii	Astrographic Equat.	225	"	6 42 59.57	R. C.

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Day.	Phenomenon.	Telescope.	Power.	Moon's Limb.	Mean Solar Time of Observation. h m s	Observer.
Oct. 3	Disapp. χ^1 Sagittarii	Sheepshanks Equat.	125	Dark	6 42 59.35	W.
3	Reapp. "	"	125	Bright	7 33 59.57	"

Notes.

- (a) Not considered a good observation.
- (b) Seemed to be a slight distance from limb when first seen.
- (c) The observer noted that the observed time was probably late.
- (d) Observed in twilight. The observed time has been diminished by one minute.

Phenomena of Jupiter's Satellites.

Day.	Satellite.	Phenomenon.	Telescope.	Power.	Mean Solar Time of Observation. h m s	Mean Solar Time of N.A. h m	Observer.
1897. Jan. 27	I. (a)	Tr. Ing. First contact	E. Equat.	120	9 6 56.41	9 10	II.
27	I.	Bisection	"	"	9 9 1.07		"
27	I.	Last contact	"	"	9 11 15.7		"
27	I.	Tr. Egr. Bisection	"	"	11 28 13.34	11 29	"
27	I.	Last contact	"	"	11 30 8.03		"
28	II.	Tr. Ing. Bisection	"	"	9 53 48.53	9 55	A. C.
28	II.	Last contact	"	"	9 55 33.24		"
28	II.	Tr. Egr. First contact	"	"	12 38 37.58	12 45	"
28	II.	Bisection	"	"	12 40 43.24		"
28	II.	Last contact	"	"	12 42 23.96		"
Mar. 13	I. (b)	Occ. D. First contact	"	"	11 7 45.23		W. B.
13	I.	Bisection	"	"	11 9 10.00	11 9	"
13	I.	Last seen	"	"	11 10 24.80		"